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C-130B/C-130E COMPARISON

		C-130 B	C-130 E
1.	Engines	T-36A 7	T-36A 7
2.	Propellors	Hamilton Std.	Hamilton Std.
3.	Dimensions		
	a. Span	132' 7"	132' 7"
	b. Length	97' 9"	97' 9"
	c. Height	38' 4"	38' 4"
4.	Cargo Compartment		
	a. Height	110.8"	110.8"
	b. Width	123.3"	123.3"
	c. Length	41.4'	41.4'
5.	Design Gross Weight	135,000	155,000
6.	Basic Weight	69,300	72,174
7.	Max. Fuel Capacity	45,240	62,720
8.	Range		
	a. With max. cargo + fuel	2,275	3,200
	b. With max. fuel + cargo	3,400	4,275
	c. With max. fuel (no cargo)	4,125	4,925
9.	Take Off At Max. Gross Wt.		
	a. Ground roll	3,000	4,350
	b. Distance to 50 feet	4,300	6,250
10.	Landing Distance (105,000#)		
	a. Distance from 50 feet	2,375	2,900
	b. Ground roll	1,475	1,900
11.	Cruise Ceiling At Max. Gr. Wt. T.O.	26,000	22,000
12.	Initial Cruise Speed	305	292

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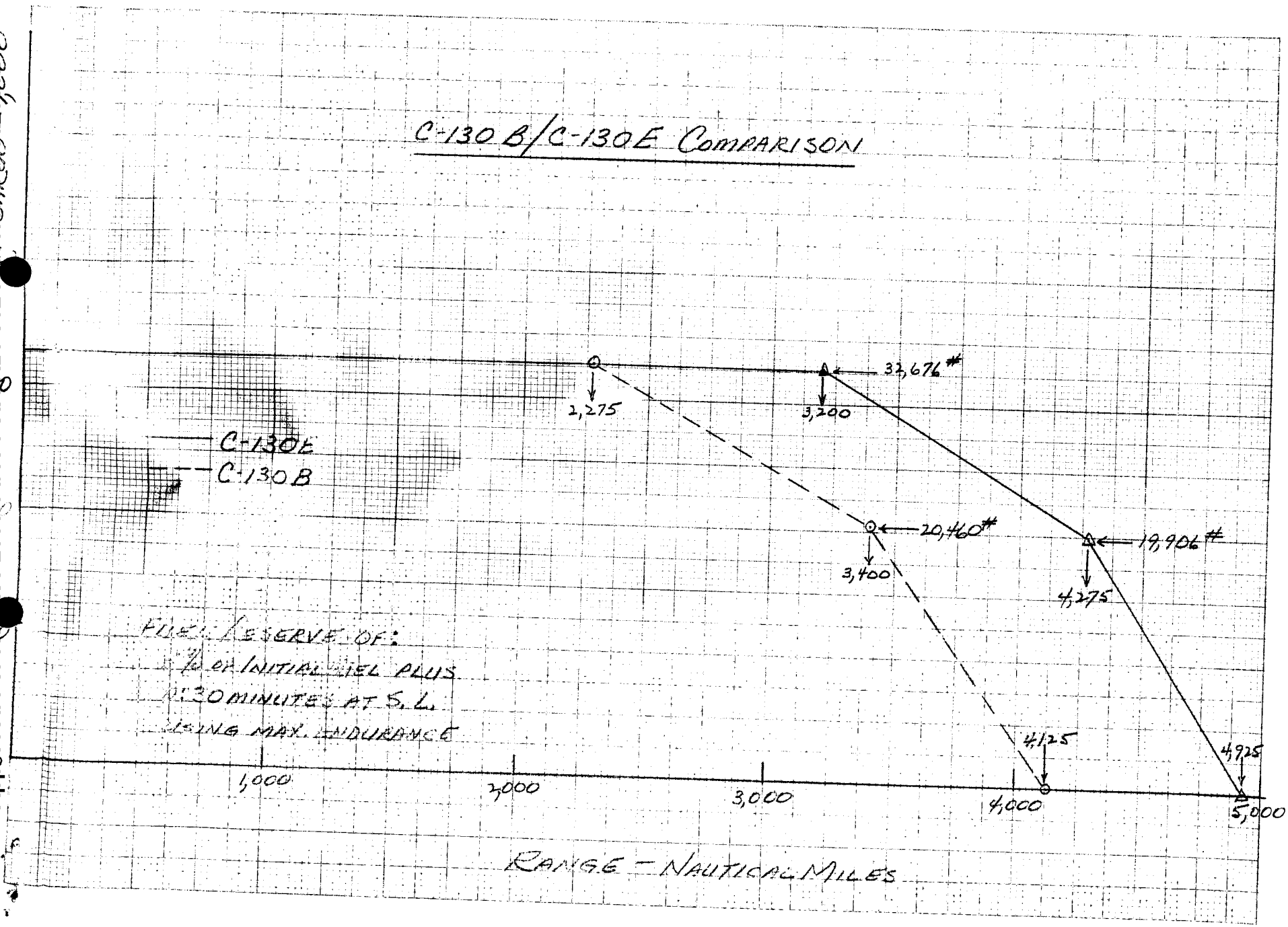
NO. 543 20X20 PER INCH THE FREDERICK DOSI CO. CHICAGO



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Case B

RESERVE FUEL = 5% OF INITIAL FUEL PLUS 0:30 AT S.L. @ MAX ENDUR.

Basic wt	69,300	landing wt	101,976 + Reserve
fuel	33,024	reserve 5%	1,651
Cargo	32,676	:30	2,000
Start eng wt	135,000	landing wt	105,627#
Taxi, T.O.	2,000		
Start mission wt	133,000#	3,975	
Landing wt	105,627#	1,700	

→ Range = 2,275 n mi w/ 32,676# cargo

Basic wt	69,300	landing wt	69,300 + Reserve
Fuel	45,240	reserve 5%	2,262
Cargo	0	:30	1,800
Start eng wt	114,540	landing wt	73,362#
Taxi, T.O.	2,000		
Start mission wt	112,540#	7,450	
Landing wt	73,362#	3,325	

→ Range = 4,125 n. mi. w/ zero cargo

Basic wt	69,300	landing wt	89,760 + Reserve
Fuel	45,240	reserve 5%	2,262
Cargo	20,460	:30	1,950
Start eng wt	135,000	landing wt	93,972#
Taxi, T.O.	2,000		
Start mission wt	133,000#	5,100	
Landing wt	93,972#	1,700	

→ Range = 3,400 n. mi w/ 20,460# cargo

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C-130A

RESERVE FUEL = 5% OF INITIAL FUEL PLUS 0:30 AT S.L. @ MAX. ENDUR.

Basic wt	72,324	landing wt 105,000 + Reserve	
Fuel	50,000	reserve 5%	2,500
Cargo	32,676	:30	2,000
Start long wt	155,000	landing wt 109,500#	
Jap, T.O.	2000		
Start mission wt	153,000#		4725
Landing wt	109,500#		1,525

→ Range = 3,200 n mi w/ 32,676# cargo

Basic wt	72,174	landing wt 72,174 + Reserve	
Fuel	62,920	reserve 5%	3,146
Cargo	—	:30	1,850
Start long wt	135,094	landing wt 77,170#	
Jap, T.O.	2,000		
Start mission wt	133,094#		7875
Landing wt	77,170#		2,850

→ Range = 4,925 n mi w/ zero cargo

Basic wt	72,174	landing wt 92,050 + Reserve	
Fuel	62,920	reserve 5%	3,146
Cargo	19,906	:30	1,950
Start long wt	155,000	landing wt 97,176#	
Jap, T.O.	2,000		
Start mission wt	153,000#		5,800
Landing wt	97,176#		1,525

→ Range = 4,275 n mi w/ 19,906# cargo

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